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# MONTANA INDUSTRIAL ACCIDENT BOARD



## 49TH ANNUAL REPORT JULY, 1963 - JUNE, 1964

ROBERT F. SWANBERG  
Chairman

J. MAURICE JONES  
Commissioner

A. G. PILLEN, Secretary

GLENN O. LOCKWOOD  
Commissioner

SAM W. MITCHELL BUILDING  
Helena, Montana

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November 23, 1964

Honorable Tim Babcock

Governor

Dear Governor Babcock:

Pursuant to Section 92-842, Revised Codes of Montana, 1947,  
we are transmitting herewith the forty-ninth annual report of the  
Industrial Accident Board.

Very truly yours,

/s/ Robert F. Swanberg  
Chairman

/s/ J. Maurice Jones  
Commissioner

/s/ Glenn O. Lockwood  
Commissioner

ATTEST:

/s/ A. G. Pillen  
Secretary

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The activities of the Montana Industrial Accident Board during the 49th year are set forth in the following summary with the aid of statistical tables wherever it is felt necessary for the purpose of clarification.

Members of the Board are Robert F. Swanberg, Chairman; Maurice Jones, Commissioner of Labor and Industry and ex-officio member of the Board; and Glenn O. Lockwood, Director of the Division Of Vocational Rehabilitation and ex-officio member of the Board.

The duties of the Industrial Accident Board are the administration of the Montana Workmen's Compensation Act, the administration of the Montana Occupational Disease Law, the administration of the Silicosis Benefit Program and the Volunteer Firemen's Compensation Act.

#### PLAN I

Table 1 reflects the experience of the self-insured employers enrolled under Plan I of the Workmen's Compensation Act during the 49th year.

There were 78 employers enrolled under Plan I at the end of the 49th year as compared to 82 in the 48th year.

In contrast to last year's work injury experience, the 49th year reflected an increase in the number of reportable work injuries and claims. Work injuries reported were up by 7.7% while claims for compensation increased by some 25.7% over the previous year.

Table 1

#### Plan I

#### COMPARATIVE SUMMARY OF ACTIVITY

48th Year - 49th Year

	1962-63	1963-64
Number of employers enrolled	82	78
Gross annual payroll	\$112,721,500.00	\$110,833,023.61
Number of work injuries reported	2,117	2,306
Number of claims filed	505	636
Occupational disease cases reported	12	5
Compensation benefits paid	\$ 610,389.90	\$ 657,529.20
Hospital, medical & burial benefits paid	\$ 371,007.97	\$ 426,548.13
Second injury fund contributions	-0-	1,500.00
Plan I administrative assessment	\$ 22,544.30	\$ 22,309.15

## PLAN II

Table II summarizes the experience of employers enrolled under Plan II of the Workmen's Compensation Act during the 49th year. The number of employers enrolled under Plan II as of June 30, 1964, was approximately 5% higher than the number enrolled at the end of the 48th year. Plan II again reflected the greatest change in number of employers enrolled.

Plan II employers reported a total of 10,246 work injuries during the 49th year for a decrease of 1.8% from the preceding year and claims for compensation were also down by some 1.6% from the total number of claims filed during the 48th year.

Table 2

### Plan II

#### COMPARATIVE SUMMARY OF ACTIVITY 48th Year - 49th Year

	1962-63	1963-64
Number of employers enrolled	6,203	6,507
Gross Annual Premium	\$3,020,544.00	\$3,843,555.00*
Number of work injuries reported	10,428	10,246
Number of claims filed	1,443	1,464
Occupational disease cases reported	20	8
Compensation benefits paid	\$1,256,710.32	\$1,466,103.76
Hospital, medical & burial benefits paid	753,996.76	763,352.27
Second injury fund contributions	3,000.00	2,000.00
Plan II administrative assessments	90,966.32	134,289.83
*For calendar year 1963		

## PLAN III

Table 3 reflects the experience of employers enrolled under Plan III of the Workmen's Compensation Act during the 49th year. The number of employers electing coverage by Plan III showed a 2.4% decrease for the year ending June 30, 1964. At this time there were 7,261 employers enrolled under Plan III.

Work injuries reported during the 49th year showed a 4.5% increase and claims for compensation were up by 11.2% in contrast to the 48th year.

Table 3

### Plan III

#### COMPARATIVE SUMMARY OF ACTIVITY 48th Year - 49th Year

	1962-63	1963-64
Number of employers enrolled	7,442	7,261
Paid premium	\$4,246,804.85	\$4,722,569.22
Number of work injuries reported	8,460	8,841
Number of claims filed	1,223	1,360
Occupational disease cases reported	13	5
Compensation benefits paid	\$2,187,143.79	\$2,590,246.11
Hospital, medical & burial benefits paid	909,518.28	1,024,616.69
Second injury fund contributions	2,500.00	4,000.00
Plan III administrative assessments	203,218.56	276,054.79

Table 4 shows a ten year comparison of the number of firms enrolled under the three plans of coverage of the Workmen's Compensation Act.

Table 5 shows a five year comparison of the number of work injuries reported and the number of claims filed by each of the three plans of the Workmen's Compensation Act.



Table 4

COMPARISON OF NEW FIRMS OVER TEN FISCAL YEARS  
(Net Increase Each Year Over Previous Years)

FISCAL YEAR	PLAN I	PLAN II	PLAN III	TOTAL
1954-55	3	213	743	959
1955-56	-2	25	511	534
1956-57	5	-600	645	50
1957-58	10	469	-355	124
1958-59	-3	110	-364	-257
1959-60	2	287	-857	-568
1960-61	5	353	-160	198
1961-62	4	606	8	619
1962-63	-7	403	146	542
1963-64	-4	304	-181	119

NUMBER OF FIRMS CARRYING WORKMEN'S COMPENSATION INSURANCE  
(Ten Year Comparison)

1954-55	68	4,549	7,868	12,485
1955-56	66	4,574	8,379	13,019
1956-57	71	3,974	9,024	13,069
1957-58	81	4,443	8,669	13,193
1958-59	78	4,553	8,305	12,936
1959-60	80	4,840	7,448	12,368
1960-61	85	5,193	7,288	12,566
1961-62	89	5,800	7,296	13,185
1962-63	82	6,203	7,442	13,727
1963-64	78	6,507	7,261	13,846

Table 5

NUMBER OF INJURIES & CLAIMS FILED BY PLAN  
(Five Year Comparison)

YEAR	PLAN I		PLAN II		PLAN III		ALL PLANS	
	ACCIDENTS	CLAIMS	ACCIDENTS	CLAIMS	ACCIDENTS	CLAIMS	ACCIDENTS	CLAIMS
45	2,179	461	7,934	1,190	10,195	1,546	20,308	3,197
46	2,042	482	8,106	1,203	9,721	1,420	19,869	3,105
47	2,430	570	9,113	1,375	8,610	1,308	20,153	3,253
48	2,117	505	10,428	1,443	8,460	1,223	21,005	3,171
49	2,306	636	10,246	1,464	8,841	1,360	21,393	3,460

## INDUSTRIAL ACCIDENT BOARD ADMINISTRATION ACCOUNT

### INCOME AND DISBURSEMENTS

The Industrial Accident Board spent a total of \$460,826.32 for the Administration of the Workmen's Compensation Act during the 49th year of the Act's existence. This is an increase of \$36,903.28 over the cost of the 48th year.

The cost of the Administration of the Act is borne by the assessment on self-insured employers, insurance carriers, and the industrial insurance fund. The maximum assessment provided for is as follows:

Income for the Administrative Fund for the 49th year:

Plan I	\$ 22,309.15
Plan II	134,289.83
Plan III	276,054.79
Boiler Inspection	26,700.84
Occupational Disease	2,556.00
Refund	<u>1,059.47</u>
Total Income	\$462,970.08
Balance - June 30, 1963	<u>74,832.93</u>
	\$537,803.01

Disbursements necessary to administer the Workmen's Compensation Act are charged to the Plan causing the disbursements. Disbursements by Plan for the 49th year were as follows:

Plan I	\$ 23,211.78
Plan II	103,324.85
Plan III	305,715.80
Boiler Inspection	23,848.44
Occupational Disease	<u>4,724.85</u>
Total	\$460,825.72

Table 6

## INDUSTRIAL ACCIDENT BOARD ADMINISTRATIVE FUND

	PLAN I	PLAN II	PLAN III	BOILER INSP.	OCC. DIS.	TOTAL
Cash Balance - 6-30-63	( <u>\$ 6,056.62</u> )	<u>\$ 32,287.75</u>	<u>\$ 48,086.30</u>	( <u>\$ 5,619.68</u> )	<u>\$ 6,135.18</u>	<u>\$ 74,832.93</u>
New Income	22,309.15	134,289.83	276,054.79	26,700.84	2,555.00	461,910.61
Cancelled Warrants			5,634.46			5,634.46
Adjustment			1.51			1.51
Refunds			<u>541.01</u>	<u>516.95</u>		<u>1,057.96</u>
Total	<u>\$16,252.53</u>	<u>\$166,577.58</u>	<u>\$330,318.07</u>	<u>\$21,598.11</u>	<u>\$8,691.18</u>	<u>\$543,437.47</u>
Less:						
Claims Paid	<u>\$23,211.78</u>	<u>\$103,325.45</u>	<u>\$305,715.80</u>	<u>\$23,848.44</u>	<u>\$4,724.85</u>	<u>\$460,826.32</u>
Balance - 6-30-64	( <u>\$ 6,959.25</u> )	<u>\$ 63,252.13</u>	<u>\$ 24,602.27</u>	( <u>\$ 2,250.33</u> )	<u>\$ 3,966.33</u>	<u>\$ 82,611.15</u>
Assessments	.02%				Filing Fee	
Maximum Assessment	.02%	3.25%	10.00%		By Statute	By Statute

\*\*\*\*\*

Table 7

PROPORTIONATE COST OF OPERATING THE INDUSTRIAL ACCIDENT BOARD  
(Per cent by Plan)

Plan	Percentage
Plan I	5.03
Plan II	22.42
Plan III	66.34
Boiler Inspection	5.17
Occupational Disease	<u>1.04</u>
	<u>100.00%</u>

## INVESTMENTS

The book value of investments for the Industrial Insurance Fund as of June 30, 1964, was \$10,311,350.00 in U. S. Government Bonds, \$430,000.00 in Unemployment Compensation Commission Bonds and \$361,419.89 in F. H. A. mortgage loans for a total of \$11,102,769.89, an increase of \$77,103.59 over last year.

Table 8 shows premium income and disbursements for past fiscal year.

Table 8

## INDUSTRIAL INSURANCE FUND

## INCOME AND DISBURSEMENTS

July 1, 1963 to June 30, 1964

## INCOME:

Premium Income	\$4,612,863.61
Penalties	1,699.84
Due Premiums	21,397.14
Recoveries	9,441.06
Interest on Bonds	347,248.02
Interest on Mortgage Loans	15,212.21
Payment on Mortgage Loans	50,964.01
Matured Bonds	320,000.00
Refund of Vocational Payment	19,008.58

## DISBURSEMENTS:

## Compensation:

Temporary Partial	\$ 5,391.60
Temporary Total	598,205.44
Permanent Partial	1,521,417.12
Permanent Total	85,643.62
Fatal	<u>379,588.33</u>
Total Compensation	\$2,590,246.11

## Medical and Hospital:

Hospital	\$ 421,858.32
Doctors	520,410.68
Nurses	13,859.00
Ambulance	4,097.80
Drugs	27,320.08
Ext. Medical	4,174.37
Ext. Legal	13,942.78
Miscellaneous	4,048.66
Burial	14,905.00

Total Medical & Hospital	1,024,616.69
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Second Injury Fund	2,000.00
--------------------	----------

Industrial Administrative Assessment	274,042.31
--------------------------------------	------------

Vocational Rehabilitation	22,982.81
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Refunds to Participants	705,166.07
-------------------------	------------

Purchase of Bonds	346,790.86
-------------------	------------

Purchase of F.H.A. Mortgages	<u>95,233.37</u>
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Total Income	\$5,397,834.47
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Total Disbursements	\$5,061,078.22
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## SECOND INJURY FUND

The following tables show the status of the Second Injury Fund as of June 30, 1964.

Table 9

### SECOND INJURY FUND 48th Year INCOME AND DISBURSEMENTS

Cash Balance - June 30, 1963	\$ 1,383.50
Income	<u>60,500.00</u>
	\$61,883.50
Disbursements	<u>\$32,222.22</u>
Cash Balance - June 30, 1964	\$28,661.28

\*\*\*\*\*

Table 10

### SECOND INJURY FUND BALANCE SHEET June 30, 1964

<p><b>ASSETS:</b></p> <table style="width: 100%;"> <tr> <td style="width: 40%;">Cash Balance</td> <td style="width: 10%; text-align: right;">\$28,661.28</td> </tr> <tr> <td><b>Total Assets</b></td> <td style="text-align: right;"><u>\$28,661.28</u></td> </tr> </table>	Cash Balance	\$28,661.28	<b>Total Assets</b>	<u>\$28,661.28</u>		<p><b>LIABILITIES:</b></p> <table style="width: 100%;"> <tr> <td style="width: 40%;">Claims Unpaid</td> <td style="width: 10%; text-align: right;">\$29,684.00</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Accounts Payable:</td> </tr> <tr> <td>    Industrial Insurance Fund</td> <td style="text-align: right;">7,000.00</td> </tr> <tr> <td>    Interest</td> <td style="text-align: right;">52.50</td> </tr> <tr> <td>    Deficit</td> <td style="text-align: right;"><u>8,075.22</u></td> </tr> <tr> <td></td> <td style="text-align: right;">\$28,661.28</td> </tr> </table>	Claims Unpaid	\$29,684.00			Accounts Payable:		Industrial Insurance Fund	7,000.00	Interest	52.50	Deficit	<u>8,075.22</u>		\$28,661.28
Cash Balance	\$28,661.28																			
<b>Total Assets</b>	<u>\$28,661.28</u>																			
Claims Unpaid	\$29,684.00																			
Accounts Payable:																				
Industrial Insurance Fund	7,000.00																			
Interest	52.50																			
Deficit	<u>8,075.22</u>																			
	\$28,661.28																			

Contributions to the Second Injury Fund were made on 3 cases under Plan I, 4 cases under Plan II and 8 cases under Plan III for a total of 15 cases.

# DEPARTMENT OF UNDERWRITING

The Department of Underwriting of Plan III presents statistics on employer enrollment and cancellations under Plan III and a table summarizing the activities of the field representatives of the department during the 49th year. This information is set forth in tables 11, 12, and 13 respectively.

Table 11

## PLAN III ENROLLMENTS July 1, 1963 - June 30, 1964

Month	Voluntary Enrollments	Referred Enrollments	Change of Name Only	Re-Enroll- ments	Transfer From Plan II	Totals
July, 1963	48	1	7	19	3	78
Aug. 1963	66	6	9	20	4	105
Sept. 1963	38	3	9	4	-	54
Oct. 1963	34	-	8	7	1	50
Nov. 1963	49	1	15	6	2	73
Dec. 1963	33	6	9	9	3	60
Jan. 1964	33	21	15	5	6	80
Feb. 1964	32	6	13	3	6	60
Mar. 1964	38	11	13	6	5	73
April 1964	41	3	12	16	5	77
May 1964	66	3	24	20	4	119
June 1964	48	9	12	11	7	87
Totals:	526	72	146	126	46	916

Table 12

## CANCELLATIONS FOR THE FISCAL YEAR 1963 - 1964

REASON FOR CANCELLATION	July 1963	Aug. 1963	Sep. 1963	Oct. 1963	Nov. 1963	Dec. 1963	Jan. 1964	Feb. 1964	Mar. 1964	Apr. 1964	May 1964	June 1964	Total
CEASED OPERATIONS	35	46	89	57	27	116	60	64	68	25	33	26	646
TRANSFER TO NEW FIRM	12	7	14	16	6	9	10	23	26	7	22	10	162
DELINQUENT	--	6	2	--	--	15	2	29	2	--	25	8	89
TRANSFER TO PLAN II	9	15	9	5	7	11	6	7	9	4	13	9	104
FAILURE TO SECURE FORMS	2	--	--	--	--	2	--	3	5	3	1	--	16
OTHER	4	5	15	5	--	16	7	9	9	2	7	2	81
TOTAL	62	79	129	83	40	169	85	135	119	41	101	55	1,098

Table 13

## ACTIVITIES OF FIELD REPRESENTATIVES OF THE UNDERWRITING DEPARTMENT

ACTIVITIES	July 1963	Aug. 1963	Sep. 1963	Oct. 1963	Nov. 1963	Dec. 1963	Jan. 1964	Feb. 1964	Mar. 1964	Apr. 1964	May 1964	June 1964	Total
MAN DAYS	59	90	64	95	65	86	84	66	69	64	51	49	841
COMPLETED AUDITS	346	281	207	273	224	245	296	186	234	215	188	160	2,855
NEW FIRM INTERVIEWS	34	21	16	58	7	16	32	24	18	30	10	9	275
SPECIAL CALLS	25	19	30	44	9	25	15	20	16	16	23	7	249
AV. NO. PRODUCTIVE CALLS PER DAY	7.0	4.0	3.15	3.94	3.69	3.44	4.3	3.48	3.9	4.01	4.33	3.59	4.02
AV. NO. PRODUCTIVE CALLS PER MAN	100	80	63	94	60	71.5	86	57.5	67	65	55	44	844.8
AV. COST PER PRODUCTIVE CALL	5.73	9.98	14.22	8.13	12.61	10.39	9.55	12.02	11.44	8.27	11.38	11.15	9.81



## PREMIUM RATES:

Rate changes were made in approximately 19% of the Industrial Insurance Fund's premium rates. A decrease in rates was allowable relative to 95% of the changes made and an increase was necessary in the remaining 5%. These rate changes became effective July 1, 1964.

The major code classification number 8743 was added and became effective July 1, 1964; this major code has two sub-divisions, numbers 8743-1 and 8743-2, covering municipal and state employees who are required to travel while engaged in the course of their employment but are not exposed to any greater hazard than experienced in ordinary travel.

## CLAIMS:

The claims department processed 8,841 work injuries and 1,360 claims under Plan III during the 49th fiscal year. This is an increase of 4.5% in work injuries reported and a 11.2% increase in the number of claims filed. Re-opened claims totaled 451 or 23.9% more than last year.

Reserves for unpaid liability on claims as of June 30, 1964, was \$3,748,359.95 for compensation and \$508,132.30 for hospital and medical benefits for a reserve total of \$4,256,491.35. This figure is approximately 14% less than a year ago and is 6.8% less than the average of the past five years.

Liability on re-opened claims during the past year totaled \$484,089.05. This is approximately 29% greater than the incurred liability for re-opened claims of a year ago.

## HEARINGS & ADJUDICATIONS:

A total of 3,460 claims for lost time were filed during the past year. There was a total of 344 disputed claims under all three plans of coverage. The disputes involved disability in the large majority of these cases. The disputed cases were placed on the Board's docket and were disposed of either through formal hearings and/or agreed settlements.

This year we again experienced an increase in the number of disputed cases. The following table reflects this upward trend over a period of years.

Table 14

### DISPUTED CLAIMS BY PLAN

Plan	46th Year	% of Total	48th Year	% of Total	49th Year	% of Total
I	48	19%	63	20%	48	14%
II	138	55%	158	52%	206	60%
III	<u>66</u>	<u>26%</u>	<u>85</u>	<u>28%</u>	<u>90</u>	<u>26%</u>
Total	252	100%	306	100%	344	100%

# VOLUNTEER FIREMEN'S COMPENSATION FUND

The Volunteer Firemen's Compensation Act was enacted in 1935 to provide medical and hospital insurance for injured members of Volunteer Fire Departments in unincorporated towns. Revenue to support this act is obtained from a tax on Fire Insurance written in Montana and from interest on Investments. The present status of the Fund is shown in Table 15.

Table 15  
STATEMENT OF CONDITION  
VOLUNTEER FIREMEN'S FUND  
June 30, 1964

Cash Balance - June 30, 1963		\$ 6,901.44
Income		
State Auditor	\$67,311.75	
Interest	13,064.52	
Cancelled Warrants	150.00	<u>80,526.27</u>
		\$ 87,427.71
Less Warrants Issued		<u>44,095.66</u>
		\$ 43,332.05
Investments		<u>374,000.00</u>
Total Cash and Investments		\$417,332.05

## SILICOSIS BENEFIT ACT

As of June 30, 1964, a total of 657 claimants were receiving monthly benefits of \$75.00 each. A total of \$616,047.00 was disbursed in benefits and \$3,997.50 was disbursed for medical costs during the past year.

Total Administrative expenses for the past year were \$13,210.15. Comparative figures for the past three fiscal years are shown below:

	1961-62	1962-63	1963-64
Salaries	\$ 6,901.00	\$ 7,429.97	\$ 8,561.00
Medical Exams	15,044.71	6,524.50	3,997.50
Postage		226.00	
Travel	1,422.29	664.07	438.55
Supplies	534.16	178.14	213.10
Furniture & Fixtures	114.60		
Other		<u>87.00</u>	<u></u>
	<u>\$24,016.76</u>	<u>\$15,109.66</u>	<u>\$13,210.15</u>

Table 16

## SILICOSIS APPROPRIATION

Cash Balance - July 1, 1963		\$ 00
Income		
By Appropriation	\$705,000.00	
By Cancelled Warrants	5,250.00	<u>710,250.00</u>
		\$710,250.00
Less Disbursements		
Claims for Benefits	\$616,047.00	
Claims for Administration	<u>13,210.15</u>	<u>\$629,257.15</u>
Balance - June 30, 1964		\$ 80,992.85
Balance with State Controller - June 30, 1964		\$ 80,992.85

Table 17

## OCCUPATIONAL DISEASE FUND

June 30, 1964

Cash Balance - June 30, 1963		\$11,059.25
Income		
Matured Bonds	\$71,234.02	
Interest	500.00	
Cancelled Warrant	50.00	\$71,784.02
Less Warrants Issued		<u>\$79,895.23</u>
Cash Balance - June 30, 1964		\$ 2,948.04
Plus Investments		
Total Cash and Investments - June 30, 1964		<u>\$75,000.00</u>
		\$77,948.04
Less:		
Medical Reserve	\$ 1,619.47	
Compensation Reserve	<u>12,246.77</u>	<u>\$13,866.24</u>
Surplus - June 30, 1964		\$64,081.80

#### OCCUPATIONAL DISEASE:

A total of 18 occupational disease cases were reported by employers under the Occupational Disease Act. Plan I reported 5 cases; Plan II reported 8 cases; Plan III reported 5 cases.

This is 27 cases less than the total number of cases reported last year.

The disease reported was dermatitis in 5 cases; silicosis in 3 cases; tamarack poisoning in 3 cases; lead poisoning in 1 case; mercury poisoning in 1 case; other diseases accounted for the remaining 5 cases.

#### WORK INJURIES REPORTED:

A total of 21,393 work injuries were reported to the Industrial Accident Board by employers under the three plans of the Workmen's Compensation Act for an increase of 1.3% over the preceding fiscal year. Plan I experienced a 7.7% increase; Plan II a 1.8% decrease; Plan III a 4.5% increase in total number of work injuries reported.

In reviewing the distribution of work injuries relative to major industry classification, we note that Contract Construction experienced a decrease of 532 or 11.9% in reportable work injuries. The major portion of this decrease was found to be in the special trades construction category, which includes structural steel, wrecking and demolition work. This decrease may be partially attributed to a decline in activity in special construction during the past year.

Manufacturing and government both contributed to the overall increase of 1.3% in reportable work injuries, with manufacturing showing an increase of 323 or 5.9% over the previous period. Government experienced an increase of 255 or 13% in reportable work injuries during the 49th year. All other industrial classifications experienced fractional increases over last year.

The local government category accounted for 70% of the total increase in reportable injuries under the major "Government" classification.

#### DISABLING INJURIES:

Although the total number of reportable work injuries has increased slightly from year-to-year, corresponding to the increase in the number of workers in the work force, severity of individual injuries has diminished somewhat. This is apparent by the increasing proportion of injuries which are classified as "no time-lost" injuries as opposed to "lost-time" or disabling injuries. (See table 18).

#### FATALITIES:

A total of 59 fatalities were reported to the Board during the 49th year for an increase of 8 or 15.7% over the same period last year. These are fatalities resulting from accidents "arising out of and in the course of employment".

## FATALITIES, Con't.

An increase was experienced in 5 of the 9 major industrial divisions; these included mineral extraction, manufacturing, transportation, trade, and government. The greatest increase was reflected by the governmental division with an increase of 6 fatalities over the same period last year. Agriculture and contract construction reflected the greatest decreases; however, it must be kept in mind that coverage in agriculture is not compulsory and fatalities in this division may pass unreported.

Table # 19 shows that while our work force has increased in size by 18% over the past fifteen years (non-agricultural workers), the number of fatalities has declined relative to the number of workers employed.

## NATURE OF INJURY:

With reference to the basic injury inflicted upon the worker in industry relative to frequency, we find that strains, sprains, and dislocations were again the leaders accounting for 29.1% of the total. Cuts, lacerations, and punctures followed with 23.1% of the total. Bruises and contusions, and foreign body in the eye accounted for 19.4% and 9.3% respectively. These four categories, of the twelve considered, accounted for 80.9% of the total reportable work injuries (see Table #26).

Injuries to the upper extremities (arms, hands, and fingers) were the most frequent accounting for 7,151 or 33.5% of the total.

Injuries to the trunk were second in frequency with 3,908 reportable injuries for 26.2% of the total.

Head, face, and neck injuries along with injuries to the lower extremities (legs, feet, and toes) were almost equal sharing 19.7% and 19.4% of the total number of injuries.

The trend relative to nature of injury by body location remains relatively unchanged from the preceding year.

## AGENCY:

Working surfaces was the number one offender relative to work injuries during the past year accounting for 3,902 or 18.2% of the total chargeable work injuries.

Hand tools caused the next largest number of injuries with 2,871 or 13.4% of the total. Trees, logs, and lumber was another common agency with 1,732 or 8.1% of the total. Taken collectively, the three most common agencies mentioned above accounted for approximately 40% of all injuries reported. Compared to the preceding year, there was little or no change reflected in agency trends.

#### ACCIDENT TYPE:

The accident type classification identifies the event which directly resulted in the injury. The experience relative to accident type was very similar to last year. Struck-by or striking-against objects, machines or equipment was still the most common classification with 8,969 or 41.9% of the total. Falls and slips again were second with 4,734 or 22.1% of the total. Strain or over-exertion as a causal factor reflected a slight decrease from the preceding year but still retained third place ranking with 2,688 or 12.5% of the total. The three classifications combined account for approximately 77% of the total number of reportable work injuries.

#### AGE & SEX OF INJURED WORKERS:

Women employees who suffer injuries are older, on the average, than men injured at work. The median age for injured women, 42.9 years, compared with 35.8 years for men during the 49th year.

During the 49th year 9.6% of all job injuries were sustained by women employees, an increase of .8% over the 48th year.

#### STATISTICAL SUMMARY:

Statistical tables covering the past year's experience will be found on the following pages.

Table 18

LOST-TIME AND NO LOST-TIME INJURIES  
July 1, 1958 through June 30, 1964

YEAR	TOTAL INJURIES	LOST- TIME	PERCENT OF TOTAL	NO LOST- TIME	PERCENT OF TOTAL	UNDETER- MINED	PERCENT OF TOTAL
1958 - 1959	19,489	6,080	31.2	12,834	66.8	537	2.9
1959 - 1960	20,308	6,770	33.4	13,249	65.2	289	1.4
1960 - 1961	19,869	6,204	31.5	13,306	67.0	299	1.5
1961 - 1962	20,153	5,987	29.7	13,722	68.1	444	2.2
1962 - 1963	21,005	5,908	28.4	14,072	70.0	365	1.6
1963 - 1964	21,393	5,953	27.8	14,993	70.1	447	2.1

Table 19

DEATHS AND DEATH RATES  
July 1, 1949 through June 30, 1964

YEAR	DEATHS	WORKERS* (thousands)	DEATHS PER 10,000 WORKERS
1949 - 1950	75	148	5.0
1950 - 1951	95	149	6.4
1951 - 1952	81	153	5.3
1952 - 1953	73	154	4.7
1953 - 1954	68	155	4.4
1954 - 1955	87	160	5.4
1955 - 1956	77	167	4.6
1956 - 1957	85	167	5.1
1957 - 1958	61	162	3.7
1958 - 1959	59	165	3.6
1959 - 1960	68	167	4.1
1960 - 1961	49	169	2.9
1961 - 1962	53	171	3.1
1962 - 1963	51	174	2.9
1963 - 1964	59	175**	3.4

\* Number of workers in non-agricultural industries in Montana.

\*\*Estimated

Source: Monthly Review of Montana Labor Market, Montana State  
Employment Service, Division of Unemployment Comp-  
ensation Commission.



Table 20  
WORK INJURY EXPERIENCE IN MONTANA  
July 15, 1915 through June 30, 1964

YEAR	TOTAL NO. OF ACCIDENTS	PLAN I	PLAN II	PLAN III	FATALS	NO. OF ACCIDENTS FOR EACH 1,000 WORKERS
1915-1916	6,802	4,391	2,236	175	136	
1916-1917	8,325	5,412	2,386	527	307	
1917-1918	5,820	3,668	1,483	669	123	
1918-1919	5,474	4,164	664	646	122	
1919-1920	4,914	3,164	741	1,009	94	38
1920-1921	3,858	1,939	854	1,065	83	
1921-1922	3,368	1,591	805	972	51	
1922-1923	5,129	2,875	1,024	1,230	81	
1923-1924	5,789	3,017	1,353	1,419	87	
1924-1925	5,816	3,280	1,257	1,279	79	
1925-1926	6,804	3,715	1,548	1,541	78	
1926-1927	6,879	3,611	1,725	1,543	93	
1927-1928	7,018	2,988	1,985	2,045	85	
1928-1929	8,364	3,359	2,383	2,622	89	
1929-1930	8,895	2,839	2,702	3,354	94	65
1930-1931	6,868	---- NOT AVAILABLE ----			55	
1931-1932	6,446	1,253	2,319	2,874	56	
1932-1933	5,482	489	1,715	3,278	31	
1933-1934	7,036	899	1,572	4,565	49	
1934-1935	10,630	838	2,454	7,338	65	
1935-1936	11,904	1,674	2,489	7,741	93	
1936-1937	12,665	2,262	2,035	8,368	103	
1937-1938	11,767	2,237	2,065	7,465	90	
1938-1939	10,176	1,282	2,131	6,763	63	
1939-1940	11,557	1,642	1,944	7,971	70	78
1940-1941	12,547	1,771	2,383	8,393	73	
1941-1942	13,258	2,348	2,492	8,418	108	
1942-1943	12,650	2,121	3,498	7,031	152	
1943-1944	11,127	1,820	3,158	6,149	97	
1944-1945	10,829	1,536	3,377	4,765	56	
1945-1946	10,196	1,139	3,266	5,791	44	
1946-1947	13,583	1,517	4,582	7,484	68	99
1947-1948	15,677	1,850	5,598	8,239	46	109
1948-1949	16,783	1,752	7,016	8,015	83	116
1949-1950	16,600	1,749	7,115	7,736	76	112
1950-1951	18,227	1,976	6,387	7,864	95	122
1951-1952	18,987	2,020	9,015	7,952	81	124
1952-1953	19,497	1,968	8,718	8,811	73	126
1953-1954	18,859	1,978	7,881	9,000	68	121
1954-1955	19,362	1,692	7,682	9,988	87	121
1955-1956	20,852	2,022	7,818	11,012	77	125
1956-1957	21,026	2,066	7,242	11,718	85	125
1957-1958	18,862	1,933	6,540	10,389	61	115
1958-1959	19,509	2,033	7,162	10,314	59	118
1959-1960	20,308	2,179	7,934	10,195	68	122
1960-1961	19,869	2,042	8,106	9,721	49	120
1961-1962	20,153	2,430	9,113	8,610	53	117
1962-1963	21,005	2,117	10,428	8,460	51	120
1963-1964	21,393	2,306	10,246	8,841	59	122

Table 21

## FATALITIES BY INDUSTRY

July 1, 1963 - June 30, 1964

<u>INDUSTRY</u>	<u>PLAN I</u>	<u>PLAN II</u>	<u>PLAN III</u>	<u>TOTAL</u>
AGRICULTURE & AGRICULTURAL SERVICES			<u>1</u>	<u>1</u>
Crop dusting			1	
MINERAL EXTRACTION	<u>8</u>	<u>2</u>		<u>10</u>
Copper mining	7			
Chemical & fertilizer mineral mining	1	1		
Oil & gas field services		1		
CONTRACT CONSTRUCTION			<u>10</u>	<u>10</u>
General building contractors			3	
Heavy construction (except highway & street)			2	
Highway & street construction			5	
MANUFACTURING	<u>6</u>	<u>3</u>	<u>4</u>	<u>13</u>
Logging	2	1	3	
Sawmills & planing mills	4	2		
Miscellaneous machinery			1	
TRANSPORTATION, COMMUNICATION & UTILITIES		<u>5</u>	<u>1</u>	<u>6</u>
Trucking, local & long distance		1	1	
Air transportation, certified carriers		4		
TRADE		<u>5</u>	<u>1</u>	<u>6</u>
Farm products, raw materials		3		
Hardware & farm equipment		1		
Miscellaneous aircraft & marine dealers		1		
Machinery & equipment dealers			1	
FINANCE, INSURANCE & REAL ESTATE		<u>2</u>		<u>2</u>
Real estate operators		1		
Insurance agents, brokers & service		1		
SERVICE		<u>1</u>	<u>2</u>	<u>3</u>
Labor unions			1	
Offices of physicians & surgeons			1	
Services to dwellings & other buildings		1		
GOVERNMENT			<u>8</u>	<u>8</u>
State government			<u>6</u>	
Public works			4	
Other State agencies			2	
Local government			<u>2</u>	
Road & street department			2	
Totals	14	18	27	59

Table 22

## CAUSE OF DEATH BY MAJOR INDUSTRY

July 1, 1963 - June 30, 1964

<u>INDUSTRY</u>	<u>PLAN I</u>	<u>PLAN II</u>	<u>PLAN III</u>	<u>TOTAL</u>
AGRICULTURE & AGRICULTURAL SERVICES			<u>1</u>	<u>1</u>
Airplane crash			1	
MINERAL EXTRACTION	<u>9</u>	<u>2</u>		<u>10</u>
Fall of ground	1	1		
Fall from vehicle	1			
Caught between railroad-car couplings	1			
Caught in equipment	1			
Fall into shaft	1			
Fall from stairway	1			
Caught between pressure-door & ore bin	1			
Struck by falling equipment		1		
Heart attack	1			
CONTRACT CONSTRUCTION			<u>10</u>	<u>10</u>
Blasting			1	
Fall into pit from ladder			1	
Falling material			2	
Automobile-snowplow collision			1	
Caught in equipment			1	
Truck-train collision			1	
Drowning			1	
Electrocution			1	
Airplane crash			1	
MANUFACTURING	<u>6</u>	<u>3</u>	<u>4</u>	<u>13</u>
Struck by material	2			
Caught in equipment	1			
Suffocation	1	1		
Falling tree	1		1	
Caught between truck & dozer	1			
Fall into conveyor		1		
Fall from truck		1		
Struck by equipment			2	
Explosion of combustibles			1	
TRANSPORTATION		<u>5</u>	<u>1</u>	<u>6</u>
Truck overturned		1		
Airplane crash		4		
Struck by material			1	
TRADE		<u>5</u>	<u>1</u>	<u>6</u>
Airplane crash		1		
Automobile collision		1		
Electrocution		1		
Automobile-truck collision		1		
Overturning equipment		1		
Falling equipment			1	

(continued)

Table 22

## CAUSE OF DEATH (continued)

<u>INDUSTRY</u>	<u>PLAN I</u>	<u>PLAN II</u>	<u>PLAN III</u>	<u>TOTAL</u>
FINANCE, INSURANCE & REAL ESTATE		<u>2</u>		<u>2</u>
Automobile collision		2		
SERVICE		<u>1</u>	<u>2</u>	<u>3</u>
Truck-train collision		1		
Automobile collision			1	
Fall down stairs			1	
GOVERNMENT			<u>8</u>	<u>8</u>
State government			<u>6</u>	
Truck overturning			1	
Truck-semi-truck collision			2	
Struck by train			1	
Drowning			1	
Heart attack			1	
Local government			<u>2</u>	
Truck overturning			1	
Heart attack			<u>1</u>	
Totals	14	18	27	59

Table 23  
TIME-LOSS AND NO TIME-LOSS INJURIES  
BY INDUSTRIAL CLASSIFICATIONS

ALL INDUSTRIES  
July 1, 1963 - June 30, 1964

INDUSTRY	TOTAL	LOST-TIME INJURIES	NO LOST-TIME INJURIES	UNDETER- MINED
AGRICULTURE & AGRICULTURAL SERVICES	<u>691</u>	<u>256</u>	<u>421</u>	<u>14</u>
Agriculture	570	214	421	12
Agricultural services, hunting & trapping	105	34	69	2
Forestry	16	8	8	--
MINERAL EXTRACTION	<u>1,372</u>	<u>339</u>	<u>1,017</u>	<u>16</u>
Metal mining	<u>428</u>	<u>66</u>	<u>358</u>	<u>4</u>
Iron ores	3	--	3	--
Copper ores	290	19	268	3
Lead & zinc	14	5	9	--
Gold & silver	53	24	28	1
Ferroalloy ores (manganese, tungston)	--	--	--	--
Metal mining services (stripping, strip mining)	68	18	50	--
Bituminous coal & lignite mining	<u>18</u>	<u>6</u>	<u>11</u>	<u>1</u>
Bituminous coal	18	6	11	1
Crude petroleum & natural gas	<u>466</u>	<u>179</u>	<u>279</u>	<u>8</u>
Crude petroleum & natural gas production	23	7	15	1
Oil & gas field services	433	172	264	7
Mining & quarrying of nonmetallic minerals except fuels	<u>460</u>	<u>88</u>	<u>369</u>	<u>3</u>
Dimension stone (blocks, slabs)	18	3	14	1
Crushed and broken stone including riprap	10	5	5	--
Sand & gravel	43	13	29	1
Chemical & fertilizer mineral mining	274	32	241	1
Nonmetallic minerals services	--	--	--	--
Miscellaneous nonmetallic minerals	115	35	80	--
CONTRACT CONSTRUCTION	<u>3,906</u>	<u>941</u>	<u>2,894</u>	<u>71</u>
Building construction - general contractors	<u>769</u>	<u>231</u>	<u>528</u>	<u>10</u>
General building contractors	769	231	528	10
Construction other than building construction	<u>1,995</u>	<u>440</u>	<u>1,513</u>	<u>42</u>
Highway & street construction	827	206	589	32
Heavy construction, except highway and street	1,168	234	924	10
Construction - special trade contractors	<u>1,142</u>	<u>270</u>	8 <u>853</u>	<u>19</u>
Plumbing, heating and air-conditioning	293	63	223	7
Painting, paper-hanging and decorating	63	28	34	1
Electrical work	242	37	201	4
Masonry, stonework, tile setting & plastering	134	37	94	3
Carpentering and wood flooring	2	--	2	--
Roofing and sheet metal work	136	33	102	1
Concrete work (does not include streets, roads, and sidewalks, except on residential property)	29	8	21	--
Water well drilling	17	9	7	1
Miscellaneous special trade contractor (structural steel, wrecking, demolition)	226	55	169	2

Table 23  
TIME-LOSS AND NO TIME-LOSS INJURIES  
BY INDUSTRIAL CLASSIFICATION

ALL INDUSTRIES  
July 1, 1963 - June 30, 1964

INDUSTRY	TOTAL	LOST-TIME INJURIES	NO LOST-TIME INJURIES	UNDETER- MINED
MANUFACTURING	<u>5,747</u>	<u>1,892</u>	<u>3,776</u>	<u>79</u>
Food & kindred products	1,239	289	935	15
Meat products	337	91	243	3
Dairy products	219	37	180	2
Canning and preserving fruits and vegetables	22	8	14	--
Grain mill products	112	33	75	4
Bakery products	98	28	70	--
Sugar	228	63	221	4
Confectionery and related products	--	--	--	--
Beverage	132	18	113	1
Miscellaneous food preparation and kindred products (grease, tallow, manufactured ice)	31	11	19	1
Textile products	7	--	7	--
Lumber and wood products, except furniture	<u>3,293</u>	<u>1,291</u>	<u>1,949</u>	<u>53</u>
Logging camps and logging contractors	911	487	411	13
Sawmills and planing mills	1,774	661	1,076	37
Millwork, veneer, plywood, prefab structural wood products	563	123	439	1
Miscellaneous wood products (preserving, treating, shaping)	45	20	23	2
Furniture & fixtures	6	1	5	--
Paper & allied products	136	42	94	--
Pulp mills	29	26	3	--
Paper mills, building paper mills	107	16	91	--
Printing, publishing and allied industries	91	32	58	1
Chemicals and allied products	39	8	31	--
Petroleum refining and related industries	184	30	153	1
Leather and leather products	2	--	2	--
Stone, glass and clay products	332	71	261	--
Primary metal industries	115	78	30	7
Fabricated metal products except ordnance, machine and transportation equipment	179	25	153	1
Machinery, except electrical	80	13	67	--
Machinery, electrical	2	1	1	--
Transportation equipment	25	7	18	--
Professional, optical and scientific goods	5	2	3	--
Miscellaneous manufacturing industries	12	2	9	1
TRANSPORTATION, COMMUNICATION, & UTILITIES	<u>1,237</u>	<u>398</u>	<u>815</u>	<u>24</u>
Railroad transportation	26	7	19	--
Railroads	3	1	2	--
Railway express service	23	6	17	--
Local and suburban transit and interurban passenger transportation	37	14	21	2
Local suburban passenger transportation	4	1	3	--

Table 23  
TIME-LOSS AND NO TIME-LOSS INJURIES  
BY INDUSTRIAL CLASSIFICATIONS

ALL INDUSTRIES  
July 1, 1963 - June 30, 1964

INDUSTRY	TOTAL	LOST-TIME INJURIES	NO LOST-TIME INJURIES	UNDETER- MINED
TRANSPORTATION, COMMUNICATION, & UTILITIES (Con't)				
Taxi cabs	22	10	11	1
Inter-city and rural transportation	9	3	5	1
School buses	1	--	1	--
Terminal and joint terminal maintenance facilities for motor vehicles passenger transportation	1	--	1	--
Motor freight transportation and warehousing	734	274	445	15
Trucking, local and long distance	714	267	433	14
Public warehousing (food lockers, farm products, and household goods)	16	5	10	1
Terminal and joint terminal maintenance facilities for motor freight transportation	4	2	2	--
Water transportation	3	--	3	--
Transportation by air	52	21	31	--
Air transportation, certified carriers	20	9	11	--
Air transportation, non-certified carriers	24	9	15	--
Air transportation services	8	3	5	--
Pipeline transportation	11	2	9	--
Transportation services	4	3	1	--
Communications	95	13	81	1
Telephone and telegraph communications	69	8	61	--
Radio broadcasting and television	26	5	20	1
Electric, gas and sanitary services	275	64	205	6
Electric companies and systems (generation, storage, distribution)	80	13	66	1
Gas companies and systems (transmission, storage, distribution)	19	2	17	--
Combination companies and systems, electric and gas	92	19	71	2
Sanitary services	20	4	15	1
Irrigation systems	64	26	36	2
TRADE	<u>4,621</u>	<u>1,065</u>	<u>3,469</u>	<u>86</u>
Wholesale trade	735	186	530	19
Motor vehicles and automobile equipment (wholesale, new and used vehicles, parts and garage equipment)	63	9	51	3
Drugs, chemicals and allied products (sundries, hospital, paints, insecticides)	21	3	17	1
Dry goods and apparel	1	--	1	--
Groceries and related products	116	37	77	2
Farm products, raw materials (hides, wool, grain, grain elevators)	156	49	103	4
Electrical goods	17	6	11	--
Hardware, plumbing and heating supplies	36	9	26	1

Table 23  
TIME-LOSS AND NO TIME-LOST INJURIES  
BY INDUSTRIAL CLASSIFICATION

ALL INDUSTRIES  
July 1, 1963 - June 30, 1964

INDUSTRY	TOTAL	LOST-TIME INJURIES	NO LOST-TIME INJURIES	UNDETER- MINED
TRADE (Con't.)				
Machinery, equipment and supplies	50	7	43	--
Miscellaneous wholesalers (coal, metals, petroleum bulk plants, beer, liquors, paper, construction materials, furniture)	275	66	201	8
Retail trade - building materials, hardware, farm equipment	<u>742</u>	<u>178</u>	<u>550</u>	<u>14</u>
Lumber and other building materials dealers	217	49	165	3
Paint, glass and wall paper stores	58	12	45	1
Hardware and farm equipment (tractors, equipment, general hardware)	314	65	222	7
Machinery and equipment dealers including service and repair	153	32	118	3
Retail trade - general merchandise	<u>340</u>	<u>56</u>	<u>271</u>	<u>13</u>
Department stores	252	36	203	13
Mail-order houses	5	1	4	--
Limited price variety stores (5 & 10)	60	11	49	--
Miscellaneous general merchandise stores (dry goods, apparel, limited housewares and home furnishings)	23	8	15	--
Retail trade - food	<u>626</u>	<u>109</u>	<u>494</u>	<u>23</u>
Grocery stores	576	104	450	22
Meat and fish markets	33	3	29	1
Dairy products stores	2	--	2	--
Retail bakeries	14	2	12	--
Miscellaneous	1	--	1	--
Retail trade - automobile dealers and gasoline service stations	<u>1,315</u>	<u>255</u>	<u>1,047</u>	<u>13</u>
Motor vehicle dealers (new and used cars)	803	127	669	7
Tire, battery and accessory dealers	133	31	101	1
Gasoline service stations	352	65	262	5
Miscellaneous aircraft, marine and auto dealers	27	12	15	--
Retail trade - apparel and accessories	<u>32</u>	<u>10</u>	<u>21</u>	<u>1</u>
Womens' ready-to-wear stores	10	5	4	1
Family clothing stores	6	2	4	--
Shoe stores	8	1	7	--
Miscellaneous apparel and accessory stores	8	2	6	--
Retail trade - home furnishings and equipment stores	<u>149</u>	<u>36</u>	<u>112</u>	<u>1</u>
Furniture, home furnishings and equipment	91	24	66	1
Household appliance stores	47	9	38	--
Radio, T.V. and music stores	11	3	8	--
Retail trade - eating and drinking places	<u>536</u>	<u>196</u>	<u>338</u>	<u>2</u>



Table 23  
TIME-LOSS AND NO TIME-LOSS INJURIES  
BY INDUSTRIAL CLASSIFICATIONS

ALL INDUSTRIES  
July 1, 1963 - June 30, 1964

INDUSTRY	TOTAL	LOST TIME INJURIES	NO LOST-TIME INJURIES	UNDETER- MINED
<b>TRADE (Con't)</b>				
Retail trade - Miscellaneous stores	<u>146</u>	<u>40</u>	<u>106</u>	<u>--</u>
Drug stores and propriety stores	33	11	22	--
Book and stationery stores	7	2	5	--
Sporting goods stores and bicycle shops	7	3	4	--
Farm and garden supply stores	65	15	50	--
Jewelry stores	2	1	1	--
Retail stores N.O.C. (Florists, news, camera)	32	8	24	--
<b>FINANCE, INSURANCE &amp; REAL ESTATE</b>				
	<u>145</u>	<u>42</u>	<u>101</u>	<u>2</u>
Banking	54	11	43	--
Credit agencies other than banks	5	--	5	--
Insurance carriers	7	1	6	--
Insurance agents, brokers and service	12	4	8	--
Real estate	67	26	39	2
<b>SERVICES</b>				
	<u>1,442</u>	<u>383</u>	<u>1,023</u>	<u>36</u>
Hotels, rooming houses, camps and other lodging places	300	82	215	3
Hotels, tourist courts and motels	274	72	199	3
Trailer parks and camps	26	10	16	--
Personal services	<u>135</u>	<u>40</u>	<u>92</u>	<u>3</u>
Laundries, laundry service, cleaning & dyeing plants	118	33	82	3
Beauty shops and barber shops	2	1	1	--
Funeral services, crematories	7	3	4	--
Miscellaneous personal services	8	3	5	--
Miscellaneous business services	<u>72</u>	<u>26</u>	<u>44</u>	<u>2</u>
Automobile repair, auto services and garages	<u>170</u>	<u>34</u>	<u>135</u>	<u>1</u>
Miscellaneous repair services	<u>54</u>	<u>13</u>	<u>39</u>	<u>2</u>
Motion pictures	<u>6</u>	<u>1</u>	<u>5</u>	<u>--</u>
Amusement, recreation services, except motion pictures	<u>86</u>	<u>28</u>	<u>56</u>	<u>2</u>
Medical and health service groups	<u>448</u>	<u>109</u>	<u>321</u>	<u>18</u>
Offices of physicians, surgeons and dentists	19	8	11	--
Hospitals	380	74	289	17
Health and allied services, N.O.C. (rest homes)	49	27	21	1
Educational services	<u>27</u>	<u>7</u>	<u>19</u>	<u>1</u>
Nonprofit membership organizations	<u>117</u>	<u>38</u>	<u>75</u>	<u>4</u>
Miscellaneous services	<u>27</u>	<u>5</u>	<u>22</u>	<u>--</u>
<b>GOVERNMENT</b>				
	<u>2,226</u>	<u>634</u>	<u>1,473</u>	<u>119</u>
State	881	254	566	61
Montana highway patrol	20	4	15	1
Corrections, department of (including state prisons, corrective institutions, etc.)	48	8	27	13

Title 23  
TIME LOSS AND NO TIME LOSS INJURIES  
BY ALL INDUSTRIAL CLASSIFICATIONS

ALL INDUSTRIES  
July 1, 1933 - June 30, 1934

INDUSTRY	TOTAL	LOST-TIME INJURIES	NO LOST TIME INJURIES	UNDETER- MINED
<b>GOVERNMENT (Con't)</b>				
Education, department of (including university, state colleges, special schools, etc.)	210	31	151	8
State hospitals, board of health	138	53	67	16
Fish & game department	41	11	20	4
Natural resources, forestry, water conservation board	26	6	21	1
Public works, department of (including highways, parks, shop and central department	311	111	101	0
Other state agencies	81	22	30	7
Local	<u>1,345</u>	<u>380</u>	<u>307</u>	<u>58</u>
Police protection	100	34	74	1
Fire protection	38	16	48	2
Education	313	100	281	12
Park and recreation	40	10	21	3
Water supply services	73	15	50	8
Sanitary services	74	23	40	2
Road, street, public works, including shops	412	127	208	17
Hospitals	58	10	30	0
Other local government	110	31	72	7
Industry not reported or non classifiable	—	<u>2</u>	<u>4</u>	<u>-</u>
<b>TOTALS</b>	<b>21,313</b>	<b>5, 53</b>	<b>14,903</b>	<b>447</b>

Table 24

ACCIDENT TYPE  
BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1963 - June 30, 1964

## ACCIDENT TYPE

	PER CENT	TOTAL	AGRICULTURE & AGRICULTURAL SERVICE	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION & UTILITIES	TRADE	FINANCE INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	NOT GIVEN
STRUCK BY OR STRIKING AGAINST	41.9	8,969	267	631	1,620	2,696	421	2,000	43	536	752	3
CAUGHT IN, ON OR BETWEEN	6.8	1,444	45	177	207	482	75	253	9	97	99	--
FALLS AND/OR SLIPS	21.1	4,734	192	223	865	1,094	320	913	53	354	718	2
INVOLVING MOVING MOTOR VEHICLES	2.2	466	25	24	85	78	73	72	4	14	91	--
STRAIN OR OVER-EXERTION	12.5	2,688	64	118	410	577	186	774	23	231	305	--
CONTACT WITH TEMPERATURE EXTREMES	2.8	596	8	31	155	135	29	127	2	72	37	--
INHALATION, ABSORPTION, SWALLOWING	1.9	407	10	26	67	109	20	93	1	35	46	--
CONTACT WITH ELECTRICAL CURRENT	.3	59	--	3	21	12	4	9	1	4	5	--
EXPLOSION, FLASH-BACK, ETC.	.4	94	1	10	16	23	8	19	1	7	9	--
FOREIGN BODY IN EYE	7.2	1,551	47	107	412	466	75	287	3	63	91	--
HEART ATTACK, HEART DISEASE, OR STRAIN	.1	34	2	3	3	4	1	9	--	1	10	1
OTHER AND NOT STATED	<u>1.6</u>	<u>351</u>	<u>30</u>	<u>19</u>	<u>45</u>	<u>71</u>	<u>25</u>	<u>65</u>	<u>5</u>	<u>28</u>	<u>63</u>	<u>--</u>
TOTAL	100.0	21,393	691	1,372	3,906	5,747	1,237	4,621	145	1,442	2,226	6
PER CENT		100.0	3.2	6.4	18.2	27.0	5.9	21.5	.7	6.7	10.4	--

Table 25

AGENCY		PER CENT											NOT GIVEN	
BY		AGENCY											GOVERNMENT	
MAJOR INDUSTRY		AGENCY											SERVICE	
ALL INDUSTRIES		AGENCY											REAL ESTATE	
July 1, 1963 - June 30, 1964		AGENCY											FINANCE,	
		AGENCY											TRADE	
		AGENCY											COMMUNICATIONS & UTILITIES	
		AGENCY											TRANSPORTATION,	
		AGENCY											MANUFACTURING	
		AGENCY											CONSTRUCTION	
		AGENCY											CONTRACT	
		AGENCY											MINERAL	
		AGENCY											EXTRACTION	
		AGENCY											AGRICULTURE & AGRICULTURAL SERVICES	
		AGENCY											TOTAL	
		AGENCY											PER CENT	
MACHINES		1,210	23	59	159	406	19	266	8	94	96	-		
ELEVATORS		41	-	15	4	-	1	11	-	4	-	-		
HOISTING APPARATUS		271	1	146	41	44	15	16	1	5	2	-		
CONVEYORS		163	9	7	19	110	2	15	-	1	-	-		
VEHICLES		1,274	59	86	180	238	173	288	10	56	184	-		
HAND TOOLS		2,871	83	153	585	770	106	742	12	198	221	1		
CHEMICALS, HOT OR INJURIOUS SUBSTANCES		934	15	52	210	231	46	213	4	85	78	-		
WORKING SURFACES		3,902	98	223	788	849	261	781	44	293	643	2		
LADDERS		283	5	19	90	37	18	59	5	19	31	-		
CONTAINERS		987	26	25	58	209	88	408	8	76	89	-		
TREES, LOGS, LUMBER		1,732	21	57	209	1,259	47	82	3	12	41	1		
BOILERS, PRESSURE VESSELS		18	1	2	7	3	1	3	-	1	-	-		
PUMPS, PRIME-MOVERS		94	3	14	32	16	1	13	-	4	11	-		
MECHANICAL POWER TRANSMISSION APPARATUS		2	-	1	1	-	-	-	-	-	-	-		
ELECTRICAL APPARATUS		126	-	5	29	30	12	26	-	14	10	-		
FLYING PARTICLES, UNASSIGNED		1,384	43	101	358	421	73	250	2	52	84	-		
ANIMALS		309	162	1	14	20	22	23	1	15	51	-		
MOTION OR PRESSURE		629	14	28	99	134	49	172	3	51	79	-		
ENVIRONMENTAL CONDITIONS		39	3	6	14	6	4	2	-	2	2	-		
MISCELLANEOUS AGENCIES		4,723	111	349	1,009	778	274	1,153	37	432	578	2		
UNCLASSIFIED, INSUFFICIENT DATA		401	14	27	80	118	25	78	7	28	24	-		
TOTAL		21,393	691	1,372	3,906	5,747	1,237	4,621	145	1,442	2,226	6		
PER CENT		100.0	3.2	6.4	18.2	26.9	5.8	21.6	.7	6.7	10.5			

Table 26

NATURE OF INJURY  
BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1963 - June 30, 1964

	PER CENT	TOTAL	AGRICULTURE & AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION, COMMUNICATION & UTILITIES	TRADE	FINANCE, INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	NOT GIVEN
AMPUTATION, LOSS OF, LOSS OF USE OF	.9	193	6	26	39	63	9	28	-	11	11	-
BURNS OR SCALDS	4.4	948	13	46	238	211	45	216	5	102	70	-
CUTS, LACERATIONS, PUNCTURES, ETC.	23.1	4,934	144	194	878	1,429	214	1,261	22	353	437	2
STRAINS, SPRAINS, DISLOCATIONS	29.1	6,229	182	298	1,040	1,466	441	1,509	66	442	784	1
CRUSHING INJURIES	2.6	593	22	60	100	177	38	107	2	30	57	-
FRACTURES	6.6	1,423	86	141	272	367	94	236	10	65	149	1
HERNIA	1.2	259	9	10	30	52	14	63	3	23	55	-
INDUSTRIAL DISEASE	1.2	254	9	19	42	65	16	50	1	20	31	-
BRUISES & CONTUSIONS	19.4	4,156	142	413	686	1,235	252	688	27	257	456	-
HEART DISEASE, STRAIN, STROKE,												
CEREBRAL HEMORRHAGE, ETC.	.1	40	2	3	5	4	1	10	-	2	12	-
FOREIGN BODY IN EYE	9.3	1,982	56	130	515	579	86	388	3	105	120	-
OTHER	.7	159	6	6	27	34	12	35	2	14	23	-
NOT STATED	1.2	223	14	26	34	65	15	26	4	16	21	-
TOTAL	100.0	21,393	691	1,372	3,906	5,747	1,237	4,621	145	1,442	2,226	6
PER CENT		100.0	3.2	6.4	18.2	26.9	5.8	21.6	.7	6.7	10.5	-

Table 27

BODY LOCATION  
BY MAJOR INDUSTRY

## ALL INDUSTRIES

July 1, 1963 - June 30, 1964

	PER CENT	TOTAL	AGRICULTURE & AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	TRANSPORTATION, COMMUNICATION & UTILITIES	TRADE	FINANCE INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	NOT GIVEN
EYES	11.7	2,520	68	161	671	711	109	492	7	136	165
HEAD, FACE & NECK	7.9	1,688	51	141	305	482	115	328	7	88	168
BACK & SPINE	18.3	3,914	113	198	620	921	294	992	36	266	473
TRUNK	7.9	1,694	80	117	299	425	110	324	8	105	225
ARMS	8.8	1,897	74	123	347	521	107	369	16	130	210
HANDS & WRISTS	9.7	2,077	78	109	379	568	82	468	12	186	194
FINGERS	14.8	3,177	69	208	473	887	133	845	20	263	279
LEGS	9.2	1,971	85	139	320	606	117	324	16	108	253
FEET & ANKLES	8.4	1,793	55	126	381	461	107	334	16	124	189
TOES	1.8	391	7	22	64	108	29	111	2	20	28
BODY N.O.C. OR NOT STATED	1.2	271	11	25	47	57	34	34	5	16	42
TOTAL	100.0	21,393	691	1,372	3,906	5,747	1,237	4,621	145	1,442	2,226
PER CENT		100.0	3.2	6.4	18.2	26.9	5.8	21.6	.7	6.7	10.5

AGENCY  
BY  
ACCIDENT TYPE  
ALL INDUSTRIES  
July 1, 1963 - June 30, 1964  
AGENCY

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Table 29

NATURE OF INJURY  
BY BODY LOCATION

## ALL INDUSTRIES

July 1, 1963 - June 30, 1964

AMPUTATION, LOSS OF, LOSS OF USE OF

BURNS AND SCALDS

CUTS, LACERATIONS, PUNCTURES, ETC.

STRAINS, SPRAINS, DISLOCATIONS

CRUSHING INJURIES

FRACTURES

HERNIA

INDUSTRIAL DISEASE

BRUISES &amp; CONTUSIONS

HEART DISEASE, STRAIN, STROKE,  
CEREBRAL HEMORRAGE, ETC.

FOREIGN BODY IN EYE

OTHER

NOT STATED

TOTAL

PER CENT

PER CENT	TOTAL	EYES	HEAD, FACE & NECK	BACK & SPINE	TRUNK	ARMS	HANDS & WRISTS	FINGERS	LEGS	FEET & ANKLES	TOES	BODY N.O.C. OR NOT STATED
.9	193	2	119	-	-	3	1	62	2	2	2	-
4.4	948	319	124	8	21	142	175	48	42	54	-	15
23.1	4,934	108	708	12	65	342	984	1,861	450	362	27	15
29.1	6,229	-	234	3,538	370	565	248	124	487	648	6	9
2.8	593	-	5	1	10	2	31	454	3	14	51	32
6.6	1,423	-	71	50	254	135	154	265	115	217	161	1
1.2	259	-	-	-	259	-	-	-	-	-	-	-
1.2	254	8	57	2	70	28	58	7	5	4	-	15
19.4	4,156	94	249	285	560	658	407	345	847	480	140	91
-	40	-	1	-	38	-	-	-	-	-	-	1
9.3	1,982	1,982	-	-	-	-	-	-	-	-	-	-
.7	159	1	95	-	31	2	3	1	2	1	-	23
<u>1.3</u>	<u>223</u>	<u>6</u>	<u>25</u>	<u>18</u>	<u>16</u>	<u>20</u>	<u>16</u>	<u>10</u>	<u>18</u>	<u>11</u>	<u>4</u>	<u>79</u>
100.0	21,393	2,520	1,688	3,194	1,694	1,897	2,077	3,177	1,971	1,793	391	271
	100.0	11.8	7.9	18.3	7.9	8.9	9.7	14.9	9.2	8.4	1.8	1.3



Table 30  
Sex and Marital Status  
By Age Group  
All Industries  
July 1, 1963 - June 30, 1964

Age Group	Male				Female				Total both sexes	Per Cent of grand total
	Total	Single	Married	Status Unknown	Total	Single	Married	Status Unknown		
Under 14	2	2			1	1			3	-
14-15	19	18	1		5	5			24	.1
16-17	218	211	3	4	45	42	2	1	263	1.4
18-19	771	641	96	37	122	81	32	9	896	4.2
20-24	2,744	1,140	1,502	106	217	103	105	9	2,965	13.9
25-29	2,604	390	2,126	93	125	33	89	3	2,734	12.8
30-34	2,261	189	2,000	76	137	24	111	2	2,402	11.2
35-39	2,266	204	2,004	58	197	32	160	5	2,463	11.5
40-44	1,922	150	1,712	62	198	37	156	5	2,122	9.9
45-49	1,806	177	1,584	47	303	73	222	8	2,111	9.9
50-54	1,496	180	1,276	40	229	54	167	8	1,725	8.1
55-59	1,037	118	889	31	175	73	98	4	1,213	5.7
60-64	614	113	479	22	120	54	59	7	734	3.4
65-69	157	28	125	4	30	21	7	2	187	.9
70-74	58	24	33	1	16	13	3	-	74	.3
75 and over	26	11	14	1	5	5	-	-	31	.1
Age not reported	1,302	247	839	237	123	29	76	18	1,446	6.8
Total	19,303	3,843	14,683	819	2,048	680	1,287	81	21,393	100.0
Per cent of total	90.2	19.8	76.1	4.1	9.6	33.2	62.8	3.8	100.0	

Median Age of Workers Injured: (Both Sexes) 36.4  
Median Age of Male Workers Injured: 35.8  
Median Age of Female Workers Injured: 42.9

Table 31  
WORK INJURIES AS  
REPORTED BY COUNTY  
& MAJOR INDUSTRY  
ALL INDUSTRIES  
July 1, 1963 thru  
June 30, 1964

County	PER CENT	TOTAL	AGRICULTURE & AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION COMMUNICATIONS & UTILITIES	TRADE	FINANCE, INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	NOT GIVEN
Beaverhead	1.4	304	24	37	125	11	12	56	1	10	28	--
Big Horn	1.5	319	23	17	111	63	21	59	1	1	23	--
Blaine	.7	157	24	3	21	9	8	56	-	4	32	--
Broadwater	.4	69	6	3	16	36	-	19	-	2	7	--
Carbon	.7	149	2	23	21	17	9	36	2	9	30	--
Carter	-	14	1	2	4	-	-	2	-	-	5	--
Cascade	9.8	2,100	75	16	475	335	158	601	28	234	178	--
Chouteau	.7	152	22	1	24	11	6	53	1	9	25	--
Custer	2.1	467	39	2	79	35	35	140	4	60	73	--
Daniels	.2	57	4	4	11	1	4	30	-	1	2	--
Dawson	1.5	329	8	53	58	33	37	91	3	18	27	1
Deer Lodge	1.3	288	-	10	48	65	7	44	-	20	94	--
Fallon	1.1	245	-	120	24	17	30	32	-	8	14	--
Fergus	1.5	334	23	2	63	49	16	105	3	26	47	--
Flathead	6.3	1,360	15	1	165	692	74	231	8	77	95	2
Gallatin	4.1	869	39	14	172	236	20	171	4	62	151	--
Garfield	-	15	1	1	2	-	2	4	-	-	5	--
Glacier	1.5	337	8	42	49	36	35	61	1	79	26	--
Golden Valley	-	5	1	-	-	-	2	1	-	-	1	--
Granite	.7	162	3	62	54	27	5	4	-	3	4	--
Hill	1.9	415	9	5	68	44	20	155	3	31	80	--
Jefferson	.8	182	3	4	19	42	9	15	-	8	82	--
Judith Basin	.2	59	16	3	9	6	4	11	-	-	10	--
Lake	1.9	403	11	2	36	267	6	39	1	12	29	--
Lewis & Clark	5.3	1,137	33	11	209	214	51	260	23	135	201	--
Liberty	.1	23	1	5	2	2	2	3	-	3	5	--
Lincoln	2.5	530	10	78	41	332	12	23	-	4	29	1
Madison	.2	54	1	11	19	-	2	10	-	5	6	--
McCone	.4	85	3	5	28	2	4	13	-	5	25	--
Meagher	.9	193	18	1	3	148	7	8	-	2	6	--
Mineral	1.0	213	-	16	24	140	12	6	-	4	11	--
Missoula	11.7	2,505	25	14	380	1,166	107	448	16	171	178	--
Musselshell	.4	87	6	29	13	7	4	18	-	-	10	--
Park	1.4	307	22	10	27	69	28	89	5	20	37	--
Petroleum	.1	21	10	3	-	-	4	2	-	-	2	--
Phillips	.6	126	3	8	25	15	9	48	-	7	11	--
Pondera	.6	128	9	12	14	16	8	42	-	9	18	--
Powder River	.1	20	5	3	4	1	2	2	-	-	3	--
Powell	1.9	417	26	195	12	95	8	37	2	7	35	--
Prairie	.1	32	-	2	3	5	5	13	-	-	4	--
Ravalli	1.5	324	10	2	43	177	12	56	-	4	19	1
Richland	1.4	292	9	13	41	72	31	80	1	13	32	--
Roosevelt	1.0	221	2	36	44	16	10	67	3	17	26	--
Rosebud	.4	101	13	12	15	6	5	24	-	10	16	--
Sanders	1.7	367	3	4	13	292	8	16	-	3	28	--

Table 31 Con't.  
 WORK INJURIES AS  
 REPORTED BY COUNTY  
 & MAJOR INDUSTRY  
 ALL INDUSTRIES  
 July 1, 1963 thru  
 June 30, 1964

County	PER CENT	TOTAL	AGRICULTURE & AGRICULTURAL SERVICES	MINERAL EXTRACTION	CONTRACT CONSTRUCTION	MANUFACTURING	TRANSPORTATION COMMUNICATIONS & UTILITIES	TRADE	FINANCE, INSURANCE & REAL ESTATE	SERVICE	GOVERNMENT	NOT GIVEN
Sheridan	.4	104	1	15	31	8	5	21	-	5	18	-
Silver Bow	7.2	1,540	6	364	573	142	55	209	14	69	107	1
Stillwater	.4	103	11	5	15	14	7	29	-	5	17	-
Sweet Grass	.2	55	18	-	14	3	3	7	-	3	7	-
Teton	.7	145	22	11	8	9	17	46	-	4	28	-
Toole	1.0	200	10	42	30	23	20	42	1	3	29	-
Treasure	.1	31	-	-	14	2	2	3	-	-	10	-
Valley	1.1	236	13	4	64	19	18	90	-	8	20	-
Wheatland	.3	60	10	1	6	4	2	23	-	2	12	-
Wibaux	.1	22	-	7	4	2	2	3	-	-	4	-
Yellowstone	12.9	2,757	34	18	513	684	210	835	20	243	200	-
Out of State	.6	137	-	8	15	28	44	31	-	7	4	-
Unknown	-	9	-	-	5	2	1	1	-	-	-	-
Totals:	<u>100.0</u>	<u>21,393</u>	<u>691</u>	<u>1,372</u>	<u>3,906</u>	<u>5,747</u>	<u>1,237</u>	<u>4,621</u>	<u>145</u>	<u>1,442</u>	<u>2,226</u>	<u>6</u>

DEPARTMENT OF SAFETY  
49th Year  
July 1, 1963 - June 30, 1964

The activities and objectives of the Safety Department are described in the following summary with supplemental statistical tables that indicate trends and accomplishments in the Accident Prevention Program. This report points out the continuing need for emphasis in certain areas that are still considered to be below acceptable standards and the reason(s) why they are below standard.

The first problem that must be clarified, understood and agreed upon by management, superintendents, foreman and employees is that --- "Accidents Can Be Prevented". Without this understanding and agreement this summary is meaningless and will serve no purpose in further attempts to prevent accidents. The law of cause-and-effect must be considered as this is the basic ingredient of all accidents. Simply stated, accidents do not happen without cause and the identification, isolation and control of these causes is the underlying principle of all accident prevention programs.

It is well known that accidents and subsequent injuries with the relative costs involved can be reduced and savings made where effective safety controls and programs are put into effect by management. It is conservatively estimated that for every \$1.00 invested in safety programming \$8.00 has been saved in reduced accident costs. Obviously the investment is nominal compared to the return realized.

The old adage that "Safety is Everybody's Business" has been out-moded. It is realized that "Everybody" is concerned with safety, but Accident Prevention Programming is the responsibility of management alone. Therefore, management must establish its program, delegate the responsibility and authority to someone to put the program into effect. The success of the program will be determined by the amount of time spent on application of accident prevention techniques within the firm.

It is recognized that each individual firm, plant or job must have a program to fit that particular firm, plant or job. Without this tailored program much time and effort will be expended with little or no results attained. To be completely effective accident prevention controls cannot be applied in a "hit-or-miss" fashion. Unfortunately this occurs with too many safety programs as evidenced by the number of injuries and fatalities which occur each year.

Through the utilization of accident reports, investigations, inspections, surveys, codes and standards the safety department attempts to inform management of certain deficiencies within a firms safety program. The department acts in an advisory capacity from the management level to the employee level in an attempt to help them maintain a minimum safe organization or work activity. The objectives established by the safety department to enable it to attain this minimum goal are as follows:

- A. Obtain the active interest and participation of management in establishing a safety program that fits the firm in question.
- B. Obtain the cooperation of key employees to assume their responsibility for thoroughly instructing their personnel in the safe work practices to be observed and to enforce observance of these safety standards to the utmost of their ability and authority.

- C. Obtain the cooperation of all employees to the extent that they understand and observe standards and codes which have been established to prevent injury to themselves and their fellow-workmen.
- D. Reduce the number of injuries occurring in the State of Montana through the use of accepted, tested and proven accident prevention techniques.
- E. Eliminate all "postmortem" type safety programs that stress corrective measures after an accident has occurred. This type of program is to be replaced with a "before-the-fact" type program, as preventive measures must be taken before the accident occurs as each accident is a "marker" and the results of some deficiency in the accident prevention program.

Considerable thought must also be given to accidents which occur outside of industry which do not arise out of the course of employment. The two areas of greatest concern to us are the highway and the home. Highway accidents, as you would guess, represent the largest number. Last year the national road toll was 43,000 fatalities which is about 7% over 1962. There was a total of 14,050,000 injuries which occurred on the highways (this figure includes the 43,000 fatalities) of our nation last year, which was an all-time high. Almost one-half of these highway accidents occurred over the weekend periods. It is significant to note that between the years 1939 and 1963, the number of annual highway injuries have increased by 176%.

Accidents occurring in and around the home accounted for 29,000 deaths during 1963; this is an increase of approximately 2% over the 28,500 deaths during 1962. These accidents cause significant losses to industrial operations, as many good employee services are lost because of serious injuries. Off-the-job safety can be included in the firms regular industrial safety program resulting in a reduction of injuries and deaths and critical loss of industrial manpower.

As industry improves production, increased skills are required by the employer and our safety programs must, of necessity, become more advanced and sophisticated. Many of the older methods and ideas of leaving safety to chance are in the past. These older techniques do not and will not produce the required results; therefore, our outlook and application of safety principles must fit the newer jobs, newer methods, and newer machinery and equipment. Employees must recognize the need for changes and, most important, must adapt to these changes. Employees must take an active rather than a passive role in accident prevention programs and all concerned will derive substantial benefits during our 50th year in the field of accident prevention.

The one outstanding fact remains that we are dealing with men and that each individual is receptive only when he understands and knows that someone is interested in his behavior or actions. When he is made fully aware that safe working conditions are being provided and that only safe working practices are acceptable by his management and supervisors, then he will give the necessary support to make it a successful safety program.

#### SAFETY PUBLICATIONS:

The Department completed and placed in effect safety codes establishing "Minimum Safety Standards for the Construction Industry" during the past fiscal year.

DEPARTMENT OF SAFETY  
STATISTICAL SUMMARY OF THE PAST THREE FISCAL YEARS

<u>REPORTED INJURIES</u>	<u>47TH YEAR</u>	<u>48TH YEAR</u>	<u>49TH YEAR</u>
Plan I - Reported	2,429	2,117	2,306
Disabling Injuries	786	722	868
Plan II - Reported	9,112	10,428	10,246
Disabling Injuries	2,523	2,697	2,657
Plan III - Reported	8,612	8,460	8,841
Disabling Injuries	2,678	2,549	2,655
Total All Plans	<u>20,152</u>	<u>21,005</u>	<u>21,393</u>
Total Disabling Injuries	5,987	5,968	6,180
Disabling Injuries per 1,000 Workers	35.6	34.9	25.4

INDUSTRIAL ACTIVITY SUMMARY

	<u>Injuries Reported</u>	<u>Reported Fatalities</u>	<u>Number of Employers</u>
Plan I			
1961-1962 (47th Yr.)	2,429	13	89
1962-1963 (48th Yr.)	3,117	12	82
1963-1964 (49th Yr.)	2,306	14	78
Plan II			
1961-1962 (47th Yr.)	9,112	19	5,800
1962-1963 (48th Yr.)	10,428	17	6,203
1963-1964 (49th Yr.)	10,246	18	6,507
Plan III			
1961-1962 (47th Yr.)	8,612	27	7,296
1962-1963 (48th Yr.)	8,460	23	7,442
1963-1964 (49th Yr.)	8,841	27	7,261

### SAFETY ACTIVITIES BY PLAN

	<u>47TH YEAR</u>	<u>48TH YEAR</u>	<u>49TH YEAR</u>
Plan I	233	183	205
Plan II	835	749	878
Plan III	2,282	3,217	3,451
No Plan (None)	212	238	241
No Division	92	296	210

### INVESTIGATION OF FATAL ACCIDENTS

Logging & Woodworking	6	19	15
Mineral Ext. & Prod.	18	14	15
Construction	13	15	12
Agriculture & Food Prod.	3	8	17
Miscellaneous	<u>4</u>	<u>6</u>	<u>6</u>
	44*	62*	65*

\*Includes deaths attributed to natural causes and those investigated but not coming under the Workmen's Compensation Law. Does not include total injured.

### INVESTIGATION OF NON-FATAL ACCIDENTS

Logging & Woodworking	31	28	21
Mineral Ext. & Prod.	13	13	14
Construction	24	26	22
Agriculture & Food Prod.	8	4	9
Miscellaneous	<u>14</u>	<u>8</u>	<u>7</u>
	90	79	73

### SPECIAL SERVICES

Safety Meetings	185	222	193
Attendance	3,811	4,128	3,153
First-Aid Programs	139	93	82
Attendance	1,247	1,992	999
First-Aid Cards	236	188	128

### OPERATORS LICENSES ISSUED

Originals (Inspectors)			
1st Class	34	48	26
2nd Class	18	42	31
3rd Class	201	226	257
Low Pressure	164	152	207
1st Class A & E	21	16	13
2nd Class A & E	14	10	26
Traction	7	5	5

OPERATORS LICENSES ISSUED - Con't.

	<u>47TH YEAR</u>	<u>48TH YEAR</u>	<u>49TH YEAR</u>
Re-issue (Office)	97	103	140
Renewals (Inspectors)	279	171	215
Renewals (Office)	2,136	2,184	2,213

CERTIFICATES ISSUED

	<u>INSPECTORS</u>		<u>OFFICE</u>		<u>BOILERS</u>	
	<u>No.</u>	<u>Amount</u>	<u>No.</u>	<u>Amount</u>	<u>No.</u>	<u>Amount</u>
47th Year	738	\$ 3,606.00	2,233	\$ 4,884.00	1,910	\$12,550.00
48th Year	670	3,816.00	2,287	5,046.00	1,740	11,657.00
49th Year	<u>780</u>	<u>3,970.00</u>	<u>2,353</u>	<u>5,284.00</u>	<u>2,642</u>	<u>17,245.00</u>
	2,188	\$11,392.00	6,873	\$15,214.00	6,292	\$41,452.00

TRAVEL AND EXPENSES

Miles Traveled	300,253
Vehicle Expense	\$ 8,462.60

ADMINISTRATIVE EXPENSE

Salaries (Includes PERS and SS)	\$75,283.83
Travel (Includes vehicle and per diem)	19,547.60
Telephone	1,925.00
Office supplies, printing, etc.	750.00
Vehicles	8,594.97
Safety equipment	1,182.70
Safety code	<u>6,262.99</u>
Total	\$113,546.09

## Cost by Plan:

Plan I	\$ 6,812.77
Plan II	21,573.75
Plan III	<u>85,159.57</u>
	\$113,546.09

DEPARTMENT OF SAFETY PERSONNEL

<u>Category</u>	<u>Name</u>	<u>Service</u>
Logging & Wood Products	Clayton Lauman	5 Yrs. 7 Mo.
	George D. Hetherington	5 Yrs. 2 Mo.



DEPARTMENT OF SAFETY PERSONNEL - Con't.

<u>Category</u>	<u>Name</u>	<u>Service</u>
Construction	Maurice Strickland Bernard J. Briggeman	11 Yr. 2 Mos. 3 Yrs.
Mineral Extraction	Thomas Morgan Nathan May	4 Yrs. 8 Mos. 6 Yrs.
General Safety	James R. Uncles John R. Miehle	4 Yrs. 9 Mos. 5 Yrs. 10 Mos.
Boiler	O. W. Branson Paul R. Rafferty	5 Yrs. 1 Yrs.
Office	V. G. Warren Allen L. Kirkeby	5 Yrs. 1 Mo. 4 Yrs. 5 Mos.
Supervisor	George E. Wenstrom	9 Yrs. 5 Mos.

## STATE COAL MINE INSPECTOR'S REPORT

Coal production in the State of Montana for the fiscal year July 1, 1963, to June 30, 1964, with 35 mines reporting, was 345,259 tons as compared with 364,358 tons for the previous year.

The East Belt Mine and the Magnuson Mine did not produce any coal last year.

There were no fatalities in the Montana coal mines and only one lost-time injury.

There were no applicants for the mine foreman's examination during the past year.

The Big Horn Coal Company of Sheridan, Wyoming purchased the Tongue River Mine from Henry Yallowizer and will continue its operation.

Production statistics and a list of the coal mines in Montana will be found on the following pages.

S/ Thomas Morgan  
State Coal Mine Inspector

PRODUCTION REPORT

Table 32

July 1, 1963 - June 30, 1964

MONTANA COAL MINES

Mines By County	Average No. Employees	Tonnage Mined	Accidents	
			Fatal	Non-Fatal
<u>BIG HORN</u>				
Tongue River Coal Co.	2	635	0	0
<u>BLAINE</u>				
Milk River Coal Co.	7	2,845	0	0
<u>CARBON</u>				
Smith Coal Docks	5	5,520	0	0
Roadside Mine	2	439	0	0
Brophy Coal Co.	11	6,504	0	1
<u>CASCADE</u>				
Loveland Mine	1	411	0	1
Latham Mine	2	560	0	0
Canyon Mine	2	80	0	0
<u>CUSTER</u>				
Storm King Mine	2	2,100	0	0
Moon Creek Mine	1	118	0	0
<u>DAWSON</u>				
Peuse Mine	1	776	0	0
Albrecht Mine	2	650	0	0
<u>FERGUS</u>				
Swanson Mine	1	107	0	0
Tuss Mine	1	504	0	0
<u>HILL</u>				
Rocky Boy Mine	2	312	0	1
<u>MC CONE</u>				
No. 1 Mine	2	150	0	0
<u>MUSSELSHELL</u>				
Divide Mine	5	8,593	0	0
Gildroy Mine	4	3,420	0	0
Forstrom Mine	4	2,985	0	0
Johnny's Mine	3	1,447	0	0
Nies Mine	5	5,000	0	0
Square Deal Mine	6	8,153	0	0
Western Coal Mine	4	2,220	0	0
P & M Mine	3	2,150	0	0

PRODUCTION REPORT

Table 32 - Con't.

July 1, 1963 - June 30, 1964

MONTANA COAL MINES

Mines By County	Average No. Employees	Tonnage Mined	Accidents	
			Fatal	Non-Fatal
<u>POWDER RIVER</u>				
Coal Creek Mine	3	1,188	0	0
Wilson Mine	2	20	0	0
Two Tree Mine	3	60	0	0
Coal Bank Canyon	2	800	0	0
Bemer Mine	2	950	0	0
Thiell Bros. Mine	3	1,322	0	0
Knife River Coal Co.	16	281,118	0	5
<u>ROSEBUD</u>				
Foley Bros	3	630	0	0
Lame Deer Mine	3	1,100	0	0
<u>SHERIDAN</u>				
Lagerquist Mine	2	748	0	0
Acme Mine	2	2,278	0	0

MONTANA COAL MINES  
(Name and Location)

<u>COMPANY</u>	<u>ADDRESS</u>	<u>COUNTY</u>
Tongue River Coal Co.	Henry Yallowizer Decker, Montana	Big Horn
Milk River Coal Co.	Lauren Sargent Box 661 Havre, Montana	Blaine
Smith Coal Docks	Samuel Carpenter Red Lodge, Montana	Carbon
Roadside Mine	Frank Janskovitch Bearcreek, Montana	Carbon
Brophy Coal Mine	James Brophy Red Lodge, Montana	Carbon
Loveland Mine	Mrs. Earl Loveland Millegan Rt. Great Falls, Montana	Cascade
Latham Mine	Dennis Yatsko Stockett, Montana	Cascade
Canyon Mine	Albert Korin Sand Coulee, Montana	Cascade
Storm King Mine	Ralph E. Bair Box 113 Miles City, Montana	Custer
Moon Creek Mine	Henry Freeze 509 Pacific Street Miles City, Montana	Custer
Peuse Mine	Gordon Peuse Lindsay, Montana	Dawson
Albrecht Mine	Jacob Albrecht Bloomfield, Montana	Dawson
Swanson Mine	William Swanson Gilt Edge Route Lewistown, Montana	Fergus
Tuss Mine	C. M. Tuss East Evelyn Street Lewistown, Montana	Fergus
Rocky Boy Mine	Ernie Friede Box Elder, Montana	Hill

MONTANA COAL MINES  
(Name and Location)

<u>COMPANY</u>	<u>ADDRESS</u>	<u>COUNTY</u>
No. 1 Mine	R. D. Stephenson Circle, Montana	McCone
Divide Mine	Victor Carlson Roundup, Montana	Musselshell
Gildroy Mine	Ralph E. Gildroy Roundup, Montana	Musselshell
Forstrom Mine	Victor Forstrom Roundup, Montana	Musselshell
Johnny's Mine	Johnny Keosky Roundup, Montana	Musselshell
Nies Mine	William Nies Roundup, Montana	Musselshell
Square Deal Mine	Virgil Cross Roundup, Montana	Musselshell
Western Coal Mine	Glenn Johnson Roundup, Montana	Musselshell
P. M. Coal Mine	Paul Meged Golden Creek Route Roundup, Montana	Musselshell
Coal Creek Mine	John Schoonover Box 94 Ashland, Montana	Powder River
Wilson Mine	J. L. Wilson Broadus, Montana	Powder River
Two Tree Mine	Antone Gali Epsie, Montana	Powder River
Coal Bank Canyon	Cyrus Lowery Box 882 Sidney, Montana	Fowder River
Bemer Mine	Neville Bemer Culbertson, Montana	Powder River
Thiell Bros. Mine	Charles Thiell Box 586 Sidney, Montana	Powder River
Knife River Coal Co.	Knife River Coal Co. Savage, Montana	Powder River

MONTANA COAL MINES  
(Name and Location)

<u>COMPANY</u>	<u>ADDRESS</u>	<u>COUNTY</u>
Foley Brothers	O. E. Rye Coalstrip, Montana	Rosebud
Lame Deer Mine	Lester Scott Lame Deer, Montana	Rosebud
Lagerquist Mine	E. C. Lagerquist R. F. D. 1 Westby, Montana	Sheridan
Acme Mine	M. F. Brenteson Coalridge, Montana	Sheridan

METAL MINE INSPECTOR'S REPORT  
July 1, 1963 - June 30, 1964

The following summary briefly outlines the general activity of the metal and non-metal mining industry in the State of Montana during the past fiscal year.

It will be noted that a general decrease occurred during this past period with copper and zinc tonnage reflecting the greatest decreases. Copper ore production was substantially lower at the Berkeley Pit and zinc production was off because of cut-backs by the Anaconda Company and cessation of operations by the Trout Mining Company and reductions by the Taylor Knapp Company. A decline in the production of copper ores was noted during the 48th fiscal year but this was offset, in the non-metal area, by an increase in the production of sand and gravel. However, during the 49th fiscal year a sizable decline in the production of sand and gravel was also experienced due primarily to cut-backs in current requirements of the Highway Department.

Aluminum

Anaconda Company Aluminum was up slightly over the preceding year and in the forthcoming year they expect to almost double their production with the addition of a new pot line.

Copper

Production at the Berkeley Pit was down almost 24% but the production at the underground mines showed an increase during the same period. The Anaconda Company was responsible for all but 126 tons of the total copper production in the state.

Gold

Gold production was down 24% from the preceding year and at its lowest point since the year 1900. Most of the gold production results as a by-product of copper and zinc mining. The Rumsey Mine at Philipsburg and the Yellow Band group at Argenta are two of the smaller active producers.

Iron

In the production of iron ores an increase of nearly 1,000 tons was noted by the R & S Mining Company of Radersburg. Their entire output was used by the cement industry.

Lead

Production of lead was down by some 18% under the previous year and the major portion of this production resulted as a by-product of zinc mining.

Manganese

Manganese shipments dropped from last years total of 24,740 tons to 5,260 tons.

Silver

A 7% decline in the production of silver output was accompanied by a 11% increase in the value of production due to an increase in the market price.



### Thorium

Although no thorium was produced during this past year, much interest was generated relative to the large deposit near the Lemhi Pass area.

### Uranium

Uranium output was very small with all production coming from the Fryor Mining Company in Carbon County.

### Zinc

Zinc production declined nearly 5,000 tons because of cut-backs by the Anaconda Company along with the closing of the Trout Mining Company and cut-backs at the Taylor-Knapp Company

## NON-METAL MINES

### Asbestos

Short-fiber asbestos was produced by a new process at Zonolite Company in Libby, Montana in conjunction with their vermiculite operation.

### Barite

The output of barite was up over the previous year and the entire production was the result of the activity of the Baroid Division of the National Lead Company near Greenough, Montana.

### Cement

The addition of another large company, Kaiser Cement & Gypsum Corporation in Jefferson County, which went into production in March, 1964, contributed substantially to the sharp increase in production. A large portion of this production was utilized in the Yellowtail Dam construction.

### Clays

The production of miscellaneous clays was much lower than the previous year. The primary source of production is Fergus and Yellowstone Counties.

### Flourspar

Flourspar mining remained at a high level with Roberts Mining at Darby being the sole producer.

### Gypsum

Production reflected an increase of 25% over the previous period. The entire production coming from two mines near Lewistown, the Ideal Cement Company and the U. S. Gypsum Company.

### Lime

Lime production was up 10% along with a 24% increase in total value over the preceding year.

Metal Mine Inspector's Report - Con't.  
July 1, 1963 - June 30, 1964

#### Phosphate Rock

The mining of phosphate rock was up 16% over the previous year. The Victor Chemical Company and the Montana Phosphate Products Company are the sole producers. The Montana Phosphate Products Company implemented their production by the addition of five portals and a large mill located at Douglas Creek in Granite County.

#### Sand & Gravel

Production was down nearly four million tons due primarily to a cut-back by the Montana Highway Department.

#### Stone

The output of stone in its many varied forms was up nearly five million tons during the past year. (This increase is directly attributable to a production report now being made available from the State Highway Department.)

#### Sulphur

Sulphur production shows a decrease from the previous year. Montana Sulphur & Chemical Company of Billings, Montana is the sole producer.

#### Talc

With the addition of a larger plant at Three Forks, the Sierra Talc Company has increased its plant capacity considerably. The industry overall experienced a 35% increase in production with Beaverhead and Gallatin Counties as the primary producing areas.

#### Vermiculite

The production of vermiculite increased by some 12% with the Zonolite Company of Libby, Montana as the only producer.

S/ Nathan May  
Mine Inspector

TABLE 33  
MONTANA METAL & NON-METAL MINES IN PRODUCTION  
July 1, 1963 - June 30, 1964  
(Includes Smelters & Service Departments)

OPERATED BY	PLANT and COUNTY	PRODUCT	TOTAL MAN HOURS WORKED	AVERAGE NO. EMPLOYEES	LOST TIME INJURIES	TOTAL INJURIES
<u>Beaverhead County</u>						
MAIDEN ROCK, MONTANA	CANYON CREEK MINE	PHOSPHATE	108,071	65	4	18
	EAST LA MARCHE	PHOSPHATE	74,387	39	1	7
SPOKANE NATIONAL MINES	NEW DEPARTURE	LEAD, SILVER	43,861	21	0	1
TRI STATE MINERALS	UNDER-GROUND MINE	TALC	12,480	5	0	0
	PLANT	TALC	56,160	25	1	1
<u>Broadwater County</u>						
RALLS HARRIS BROTHERS	OPEN PIT	IRON	416	2	0	0
<u>Carbon County</u>						
WEAVER CONSTRUCTION CO.	QUARRY	LIMESTONE	33,761	15	0	0
	PLANT	LIMESTONE	13,506	6	0	0
<u>Cascade County</u>						
UNITED PRE-STRESSED, INC.	PLANT	PRESTRESSED CONCRETE	41,492	22	0	0
BOB LEE SHERKER	MINE	CLAY	--	3	1	2
TREASURELITE CO.	PLANT	SHALE	14,483	8	0	8
ANACONDA CO.	SMEALTER	ZINC	2,685,592	1,318	25	123
ANACONDA CO.	PLANT	WIRE CABLE	223,099	110	3	27
MONTANA STONE QUARRY, INC.	QUARRY	BUILDING STONE	4,464	12	0	0
<u>Deer Lodge County</u>						
MONTANA ORES, INC.	QUARRY	SILICA	1,834	2	0	0
CHAMPION SILVER MINE	MINE	GOLD, SILVER	11,507	6	0	0
ANACONDA CO.	SMEALTER	COPPER, ZINC	3,681,184	1,750	42	203
<u>Fergus County</u>						
U. S. GYPSUM CO.	MINE	GYPSUM	17,689	9	1	1
U. S. GYPSUM CO.	HARDBOARD PLANT	GYPSUM	130,027	63	1	1
IDEAL CEMENT CO.	HANOVER MINE	GYPSUM	16,180	8	0	1
<u>Flathead County</u>						
ANACONDA ALUMINUM CO.	REDUCTION PLANT	ALUMINUM	1,142,616	580	6	96
FLATHEAD MINE	MINE	SILVER	400	1	0	0

MINES IN PRODUCTION, Con't.

OPERATED BY	PLANT and COUNTY	PRODUCT	TOTAL MAN HOURS WORKED	AVERAGE NO. EMPLOYEES	LOST TIME INJURIES	TOTAL INJURIES
<u>Callatin County</u>						
IDEAL CEMENT CO.	PLANT & QUARRY	CEMENT	250,680	131	0	28
GARDNER CONSTRUCTION CO.	PIT	GRAVEL	12,000	12	0	0
<u>Granite County</u>						
JOHN C. BORK	DUMPS	SILVER, GOLD				
		COPPER	2,080	1	0	0
TAYLOR-KNAPP CO.	MINES	MANGANESE	40,128	19	5	9
TAYLOR-KNAPP CO.	MILLS	MANGANESE	21,120	10	2	4
MONTANA PHOSPHATE PRODUCTS CO.	MINES & PLANT	PHOSPHATE	133,496	64	6	46
<u>Jefferson County</u>						
H & K MINING CORP.	OPEN-PIT	RARE-EARTH	2,240	5	0	0
PACIFIC SILICA CO.	OPEN-PIT	SILICA	3,640	11	0	2
KAISER CEMENT & GYPSUM CORP.	PIT	CEMENT SHALE	10,920	6	0	9
KAISER CEMENT & GYPSUM CORP.	PLANT	CEMENT	300,244	86	2	146
<u>Lincoln County</u>						
ZONOLITE CO.	MINE & MILL	VERMICULITE	321,945	153	30	82
<u>Lewis &amp; Clark County</u>						
AMERICAN SMELTING & REFINING CO.	PLANT	LEAD	385,878	180	0	72
ANACONDA CO.	SMELTER	ZINC OXIDE	133,816	45	0	13
<u>Madison County</u>						
TAMARACK MINING CO.	MINE	GOLD	4,500	3	0	0
TAMARACK MINING CO.	MILL	GOLD	2,500	2	0	0
TRI STATE MINERALS	OPEN-PIT	TALC	4,992	2	0	0
LAYTON MINING CO.	MINE	GOLD	300	2	0	0
<u>Missoula County</u>						
UNITED PRE-STRESSED, INC.	PLANT	CEMENT BEAMS	39,000	18	0	0
BAROID DIVISION OF NATIONAL LEAD	MINE	BARITE	12,900	10	2	3
BAROID DIVISION OF NATIONAL LEAD	PLANT	BARITE	2,240	2	0	0
WARD DEVELOPMENT CO.	MINE	SILVER, LEAD, ZINC	8,900	3	0	1

## MINES IN PRODUCTION, Con't.

OPERATED BY	PLANT and COUNTY	PRODUCT	TOTAL MAN HOURS WORKED	AVERAGE NO. EMPLOYEES	LOST TIME INJURIES	TOTAL INJURIES
LYON CONSTRUCTION CO.	PIT	RAILROAD BALLAST	6,116	20	1	1
	<u>Powell County</u>					
MONTANA PHOSPHATE PRODUCTS CO.	MINE	PHOSPHATE	423,488	208	3	128
MONTANA PHOSPHATE PRODUCTS CO.	LUKE MINE	PHOSPHATE	98,864	47	0	2
GEORGE RELYEA PHOSPHATE	MINE	PHOSPHATE	99,000	40	0	0
GEORGE RELYEA PHOSPHATE	PLANT	PHOSPHATE	25,000	3	0	1
	<u>Park County</u>					
ENIGRANT, MONTANA	PIT	RAILROAD BALLAST	3,200	20	0	0
MONTANA TRAVERTINE QUARRIES	QUARRY	TRAVERTINE	10,000	4	0	0
COMO MINING CO.	PIT & MILL	GOLD	2,000	7	0	0
	<u>Phillips County</u>					
NORTHERN CONTINENTAL, INC.	MINE	GOLD, SILVER	19,287	8	4	5
	<u>Revalia County</u>					
ROBERTS MINING CO.	PIT & MILL	FLOURSPAR	15,841	7	1	1
	<u>Silver Bow County</u>					
VICTOR CHEMICAL CO.	MINES	PHOSPHATE	25,616	13	1	4
VICTOR CHEMICAL CO.	PLANT	PHOSPHATE	271,800	102	3	24
CONTINENTAL CONCRETE CO.	PLANT	CEMENT	12,800	0	0	0
THEASURE STATE INDUSTRIAL PROD.	PLANT	CONCRETE PIPE	7,325	8	1	3
ANACONDA CO. MINES	MOUNTAIN CON MINE	COPPER	1,30,778	887	41	549
"	STEWART MINE	COPPER	1,205,840	652	47	438
"	KELLY MINE	COPPER	340,848	175	5	53
"	BADGER MINE	ZINC	555,840	301	8	97
"	LEONARD MINE	COPPER	340,632	197	20	113
"	BERKELEY PIT	COPPER	1,535,760	797	17	184
"	PRECIPITATING PLANT	COPPER	30,024	16	0	0
"	HIGH ORE PUMPS	COPPER	259,912	131	5	15
"	SHOPS & SERVICE	NONE	1,403,032	64	9	132

MINES IN PRODUCTION, Con't.

OPERATED BY	PLANT and COUNTY	PRODUCT	TOTAL MAN HOURS WORKED	AVERAGE NO. EMPLOYEES	LOST TIME INJURIES	TOTAL INJURIES
AMERICAN CHROME	<u>Stillwater County</u> MINE	CHROME	--	4	0	1
UNITED PRE-STRESSED, INC.	<u>Yellowstone County</u> PLANT	CEMENT BEAMS	34,000	17	0	0



